We Claim:

1. A lysosomal enzyme which is enzymatically active and is produced according to a process comprising:

recovering the lysosomal enzyme from (i) a plant cell or (ii) a cell, tissue or organ of a plant which plant cell or plant is transfected with a recombinant plant viral expression construct comprising a nucleotide sequence encoding the lysosomal enzyme and a promoter that regulates expression of the nucleotide sequence so that the lysosomal enzyme is expressed by the plant cell or plant.

2. The lysosomal enzyme of claim 2, in which the plant is a tobacco plant.

3. The lysosomal enzyme of claim 2, in which the lysosomal enzyme is an esterase, .alpha.-N-acetylgalactosaminidase, acid lipase, .alpha.-galactosidase, .alpha.-L-iduronidase, iduronate sulfatase, .alpha.-mannosidase or sialidase.

4. The method according to claim 3, in which the lysosomal enzyme comprises:

an enzymatically-active fragment of an esterase, .alpha.-N-acetylgalactosaminidise, acid lipase, .alpha.-galactosidase, .alpha.-L-iduronidase, iduronate sulfatase, .alpha.-mannosidase or sialidase having one or more naturally-occurring amino acid additions, deletions or substitutions.

5. The lysosomal enzyme of claim 2 that is a hydrolase.